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SORKIN, I.E., prof.; MELESHKEVICH, M.P., kand.med.nauk; GRINCHAR, A.N.; SOLDATOV, V.Ye.

885 L

Treatment of tuberculous meningitis in sdults without subsrachnoid injection of drugs [with summary in French]. Probletub. 34 no.5: 13-19 S-0 156. (MIRA 10:11)

1. Iz meningitnogo otdeleniya dlia vzroslykh (zav. - prof. I.E. Sorkin) Gosudarstvennogo nauchno-issledovatel skogo instituta tuber-kuleza Ministerstva zdravockhraneniya RSFSR (dir. V.F.Chernyshev, zam. direktora po nauchnoy chasti-prof. D.D.Aseyev) (TUBERCULOSIS, MENINGEAL, ther.

streptomycin, without subarachnoid admin.)
(STREPTOMYCIN, ther. use
tuberc., meningeal, without subarachnoid admin.)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652420011-9"

THE PROPERTY OF THE PROPERTY O

SORKIN, I.E., prof.; HELOSLYUD, Ye.G.; URSOV, I.G.; SHINDER, I.S.

Results of antibacterial therapy of chronic fibrocavernous pulmonary tuberculosis. Probl. tub. no.8:75-88'62. (MIRA 16:9)

1. Iz Moskovskogo nauchno-issledovatel skogo instituta tuberkuleza Ministerstva zdravookhraneniya RSFSR i Klinskogo protivotuberkuleznogo dispansera Moskovskoy oblasti. (KLIN-TUBERCULOSIS) (CHEMOTHERAPY)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652420011-9"

SORKIN, I.S., prof. (Moskva)

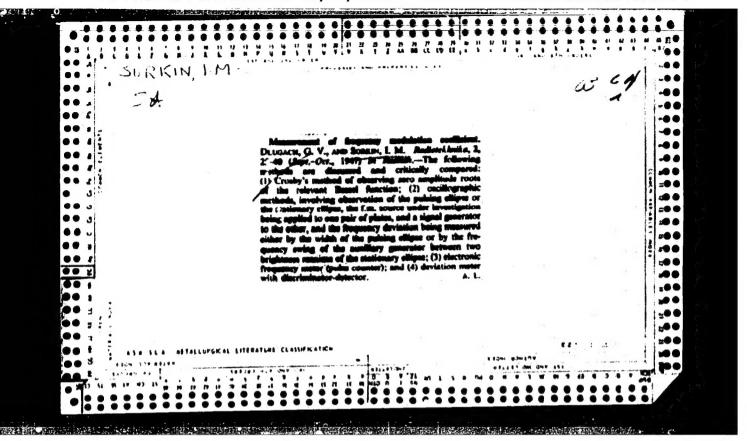
Detection and treatment of tuberculous meningitis. Sov. med. 27 no.
(MIRA 17:11)

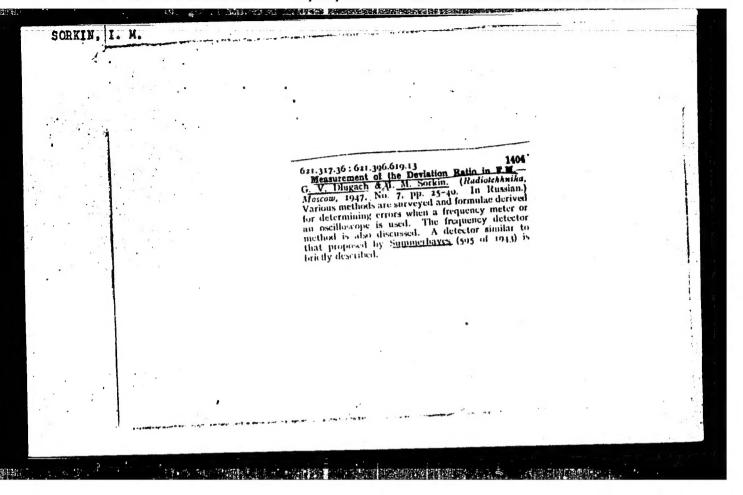
3:53-59 Mr 'e4.

Review of the activity of the interestional type of the effectiveness of antibetterfal treatment of these state with the basic preparations, sould tabe A2 no. 1870 (1978)

KHEYFETS, G.N., kand. tokhn. mauk; YARKOT. KIY, V.M., kand. tokhn. mauk; SCRKIN, I.I., kand. tokhn. nauk; KADIROVA, A.S., inzh.; FEYGLIN, V.N., inzh.; TIKHCNYUK, A.N., inzh.; SHKUHENKO, A.A., inzh.; KHOMENKO, A.G., inzh.

Steam hardening of high-capacity cylinders. Stall 25 no.8:849-852 S 165. (MIRA 18:9)





sov/115-59-5-21/27

28(2)

AUTHOR:

Sorkin, I.M.

TITLE:

Errors of the "Deviometer" and Methods of Their Verification

PERIODICAL:

Izmeritel'naya Tekhnika, 1959, Nr 5, pp 48-52 (USSR)

ABSTRACT:

The author states, that frequency modulation in telecommunications was the reason to construct a "deviometer", a device to control the frequency deviations. The usual error of the "deviometer" is 5 - 10%. The Committee of Standards, Measures and Measuring Instruments (Komitet standartov, mer i izmeritel'nykh priborov) has given official instructions for the verification of deviometers. Fig.1 shows the block diagram of the deviometer. It works in the following way: The frequence modulation signal, which is to be measured, will be converted into a low frequency voltage. Its amplitude is proportional to the deviation of the frequency. The errors of the deviometer are: 1) errors of the amplifier system; 2) errors of the restrictor; 3) errors of the frequency detector and 4) errors of the valve voltmeter. The errors can be verified in a dynamic state by the method of Crosby and in a static state.

Card 1/2

SOV/115-59-5-21/27

Errors of the "Deviometer" and Methods of Their Verification

The author gives an example for verification in a static state with frequency modulation I.Ch. M-5. The errors of this verification are: 1) error of the heterodyne voltmeter (0.001%); 2) error of the control voltmeter (2.5%). There are 2 graphs, 3 block diagrams and 12 equations.

Card 2/2

GRIBANOV, Yuriy Ivanovich; SORKIN, I.M., red.; BUL'DYAYEV, N.A., tekhn. red.

[Measurement of weak currents, charges, and high resistances]
Izmerenie slabykh tokov, zariadov i bol'shikh soprotivlenii.

Moskva, Gosenergoizdat, 1962. 79 p. (MIRA 16:5)

(Electric measurements)

### "APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652420011-9

L 17817-63

BDS

ACCESSION NR: AP3004950

S/0108/63/018/008/0049/0054

AUTHOR: Sorkin, I. M. (Member of the Society, see "Association")

TITLE: Measuring instrument as a source of information

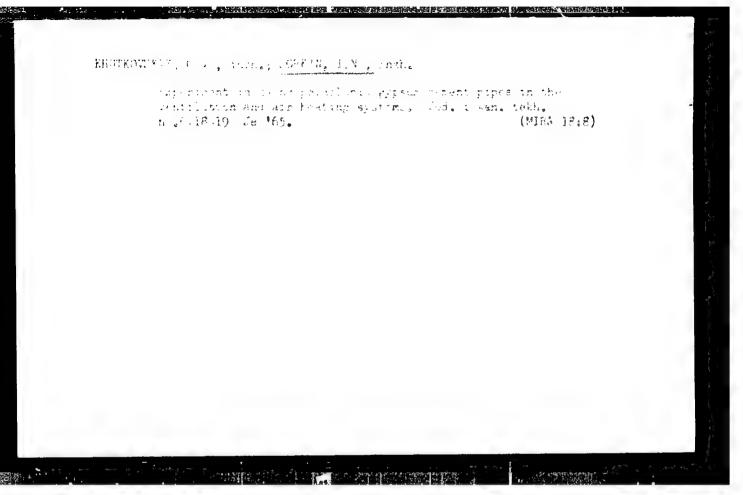
SOURCE: Radiotekhnika, v. 18, no. 8, 1963, 49-54

TOPIC TAGS: measuring instrument, M136 microammeter, information

ABSTRACT: Based on the theory of information, a mathematical study is presented of an indicating instrument operating under fluctuating conditions; the instrument reading varies within a limited range responding to variations of the measurand under the influence of random factors. It is shown that the quantity of information carried by a single reading is determined by the instrument accuracy and decreases with the increase of noise. The maximum quantity of information supplied by the instrument per unit time depends on its accuracy and on the frequency of natural oscillations of its moving element. It is recommended, for

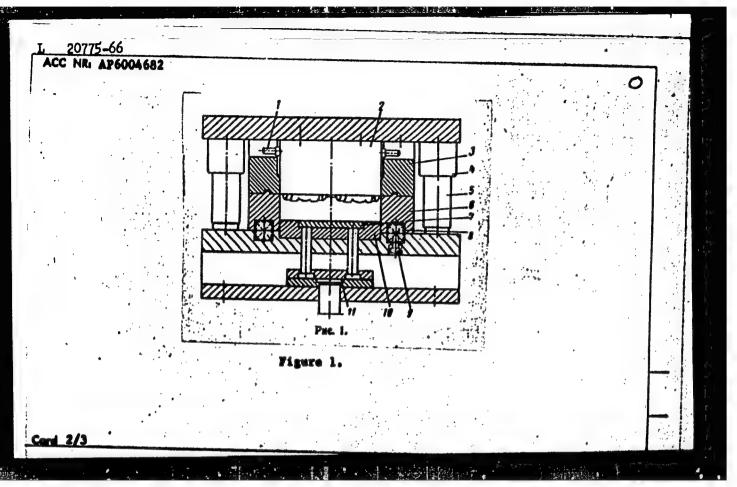
Card 1/2

# ACCESSION NR: AP3004950 an instrument operating under fluctuating conditions, that the moment of inertia be the lowest possible and the restoring torque gradient the highest possible; this results in minimum damping time, higher accuracy, and, therefore, maximum information per unit time. Orig. art. has: 1 figure and 25 formulas. ASSOCIATION: Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi (Scientific and Technical Society of Radio Engineering and Electrocommunication) SUBMITTED: 23Apr62 DATE ACQ: 06Sep63 ENCL: 00 SUB CODE: CO, IE NO REF SOV: 005 OTHER: 000



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20775-66 EWI(d)/EWI(m)/EWA(d)/EWP(v)/I/EWP(t)/EWP(k)/EWP(h)/EWP(1)/EIC(m)-6ACC NRI AP6004682 SOURCE CODE: UR/0182/65/000/010/0041/0042 AUTHOR: Ryzhikov, A. A.; Zhuravlev, V. N.; Sorkin, L. D. ORG: none TITLE: Die casting of die inserts SOURCE: Kuznechno-shtempovochnoye proizvodstvo, no. 10, 1965, 41-42 TOPIC TAGS: molten metal forging, die, die insert, tool steel, metal casting/5KhNT tool steel ABSTRACT: By contrast with the pressure die casting of nonferrous alloys and carbon steel, the die casting of tool steel still remains relatively uninvestigated. In this connection, the authors investigated the process of the pressure die casting of 5KhNT tool steel into swaging-die inserts by means of a device designed and built for mounting in 60 and 200-ton hydraulic presses equipped with anti-spatter shields. Of the various die assemblies tested, the one shown in Fig. 1 proved to be of the most suitable design. In this die assembly die 6 is mobile; when open, it is caused by springs 8 to rise to as high a position as is permitted by the limiting screws 9. Then the lower plane of the die does not rise above the level of the upper surface of bottom 10. After the molten metal is poured into the cavity, punch 2 descends together with yoke 3, As the descent of the punch continues, the die begins its descent, thus compressing the springs 8. The punch, by occupying the volume Card 1/3 UDC: 621.984.1



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ACC NR:AP6004682

2

previously occupied by the molten metal causes the latter, to get displaced upward until the cavity is completely filled. The solidification of the metal takes place under pressure. After this, the upper part of the die assembly is raised and the product is ejected from the die. The punch, die and other parts of the die assembly are housed in a frame consisting of lower and upper bolsters, guide columns 5, bushings 5 and ejection system 11. Hollow rod 1 provides water for cooling the punch. The technique used for the die casting of inserts was as follows: 5KhNT steel was melted in an induction furnace and, at a temperature 1550-1600°C poured from a ladle into the die assembly. Through trial and error it was found that reducing the thickness of the thus cast die inserts from 55 to 40 mm and increasing the pressure on the metal to 6-8 kg/mm2 virtually eliminates shrinkage porosity in the casting. The cast inserts ejected from the die are cooled and thereupon annealed at 860°C for 2 hours and at 760°C for 2.5 hours. They have a compact fine-grained structure and display a more uniform cross section than die inserts fabricated by conventional casting. Operating trials (at a forging shop, in a 1600-ton forging press) showed that the quality of die inserts produced by the die casting method is equal to that of the inserts produced by the forging method. What is more, production of the inserts by this new technique saves scarce tool steel, since they can be cast from the wastes of the press and forging shop. In addition, the tolerances are then reduced, thus reducing the weight of the blank and the volume of its subsequent machining. Orig. art. has: 4 figures.

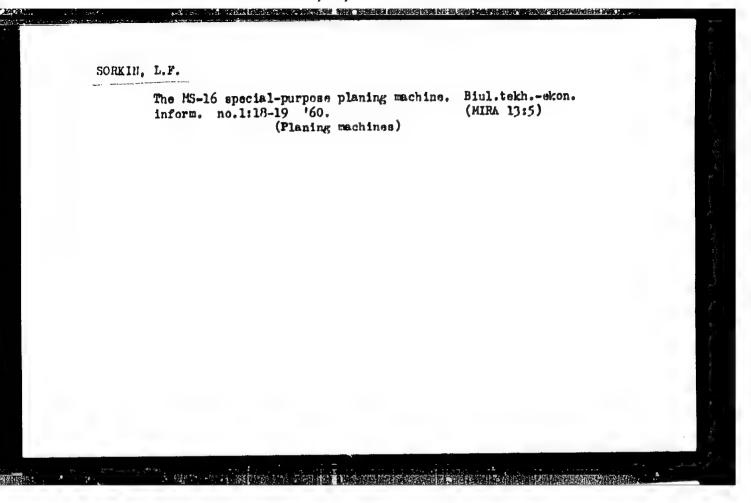
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Cord 3/3 vmb

AYZENBERG, G.I., inzh.; SORKIN, L.F., inzh.

Drum feeders for conveying burnt earth from knockout gratings through bunkers to band conveyers. Mash.Bel. no.5:106-108 (MIRA 12:11)

158. (Foundry machinery and supplies)



S/193/61/000/008/005/007 A004/A101

AUTHOR:

Sorkin, L.F.

TITLE:

Model 3510 plano-grinding machine

PERIODICAL:

Byulleten' tekhniko-ekonomicheskoy informatsii, no. 8, 1961, 42-45

The Minskiy stankostroitel nyy zavod im. Voroshilova (Minsk Machine Tool Plant im. Voroshilov) has designed and fabricated in 1960 a pilot model of the 3510 plano-grinding machine belonging to the group of unified plano-milling, parallel-planing and plano-grinding machines produced by this Plant under the current Seven-Year Plan. The machine has two grinding stocks, one of them operat ing with the periphery of a flat or profiled grinding wheel, the second with the face end of a cup-shaped wheel. The transverse arm has a special device for the correction of the transverse arm position checked with the aid of a level. The table is driven by a reversible d-c motor via a worm reducer and a worm-and-rack transmission. The automatic control of the table travel and the adjustment of the table stroke length is effected from a special control panel on the table drive reducer. The horizontal grinding stock is mounted on antifriction bedways which ensures a high displacement accuracy of the grinding stock (up to 2.5 ).

Card 1/3

S/193/61/000/008/005/007 A004/A101

Model 3510 plano-grinding machine

A pressure relay is fitted in the stock to make sure that the motor is switched on only after the oil pressure exceeds 0.3 - 0.5 atm. A grinding wheel dressing device is mounted on the horizontal grinding stock. Dressing is carried out with the aid of a copying device which is changed depending on the wheel profile. A feed mechanism mounted on the face end of the transverse arm makes it possible to carry out the following operations; manual stock displacement, setting displacement of the stocks at a controlled speed, intermittent transverse feed of the stocks, continuous transverse feed at controlled speeds. The model 3510 plano-grinding machine ensures a machining accuracy of parts according to FOCT (GOST) 11-59. The planeness of the machined surface amounts to 0,012 mm over a length of 1,000 mm in longitudinal direction and 0.015 mm over a length of 1,000 mm in transverse direction. The parallelism of the upper finished surface relative to its base amounts to 0.01 mm over a length of 1,000 mm and 0.03 mm over a length of 4,000 mm. The following technical specifications are given: maximum dimensions of parts being machined (length x width x height) = 4,000 x 1,000 x x 800 mm; grinding stocks; motor power - 20 and 2.8 kw respectively; wheel dimensions - 600 x 150 x 305 and 150 x 50 mm respectively; range of continuous transverse feeds - 48 - 2,400 mm min (for the stock with horizontal spindle);

Card 2/3

Model 3510 plano-grinding machine

9/193/61/000/008/005/007 A004/A101

range of intermittent transverse feeds - 3 - 75 mm (for the stock with horizontal spindle); range of automatic vertical feeds - 0.0025 - 0.1 and 0.0025 - 0.05 mm respectively; angle of stock turning -  $\pm$  90°; table travel speed - 2 - 25 m/min; everall dimension of machine (length x width x height) - 13,260 x 5,400 x 3,550 mm; weight - 44,850 kg. In its technical characteristics this machine is not inferior to similar machines manufactured by the leading foreign firms. There is 1 figure.

Card 3/3

s/193/62/000/003/003/005 A004/A101

AUTHOR:

Sorkin, L. F.

Model 3510 B (3510V) double-column parallel grinder

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, no. 3, 1962, 30 - 32

The Minskiy stankostroitel'nyy zavod (Minsk Machine Tool Plant) has developed the 3510V double-column parallel grinder and built the first prototype in 1961. The grinder is intended for the machining of large-size surfaces of plates, dies, etc. The table carries out reciprocating motions on flat and Vshaped bedways mounted on a base plate. The table travel speed can be steplessly regulated. The table working length and the automatic control of the machine operation cycle is effected from a special control panel. A lubricating station in the table bed feeds the lubricant to the bedways. The author presents a brief description of the spindle stock and spindle stock carriage arrangement and gives the following technical data: maximum dimensions of component being machined (length x width x height) - 3,500 x 1,000 x 800 mm; table work area (length x width) - 3,500 x 900 mm; grinding stock motor power - 28 kW; range of automatic

Card 1/2

S/193/62/000/003/003/005 A004/A101

Model 3510  $\beta$  (3510V) double-column parallel grinder

vertical feeds - 0.005-0.2 mm/stroke; table travel speed - 2-25 m/min; overall dimensions (length x width x height) - 13,300 x 4,100 x 3,550 mm; weight - 43 tons. The spindle stock travel mechanism is equipped with a device for the setting of the allowance to be removed; after removal of the required allowance, the automatic feed is switched off by a stop fixed on the limb. The grinder cooling system is fitted with a magnetic separator for purifying the cutting fluid. The 3510V grinder belongs to the series of standardized planers, parallel grinders and plano-milling machines developed by the Plant during the current Seven-Year Plan. There is 1 figure.

Card 2/2

ZUEKOV, A.I. (Moskva); SORKIN, L.I. (Moskva)

Kffert of viscosity on the flow in the area of c direct compression shock. Izv. AN SSSR. Otd. tekh.nauk, Mekh. i mashinostr.

no. 1:114-120 Ja-F'61. (MIRA 14:2)

(Fluid dynamics) (Shock waves)

L 01233-66 EWP(m)/EWT(1)/FCS(k)/EWA(d)/EWA(1)

UR/0373/65/000/004/0165/0168

ACCESSION NR: AP5021721

AUTHORS: Ashratov, E. A. (Moscow); Sorkin, L. I. (Moscow)

a. L. Maria & Jan 18 Lange Sal

34 B

TITLE: Supersonic viscous flow over an external angle

SOURCE: AN SSSR. Isvestiya. Mekhanika, no. 4, 1965, 165-168

TOPIC TAGS: supersonic flow, boundary layer, Prandtl Meyer expansion, pressure distribution, wind tunnel, experimental method

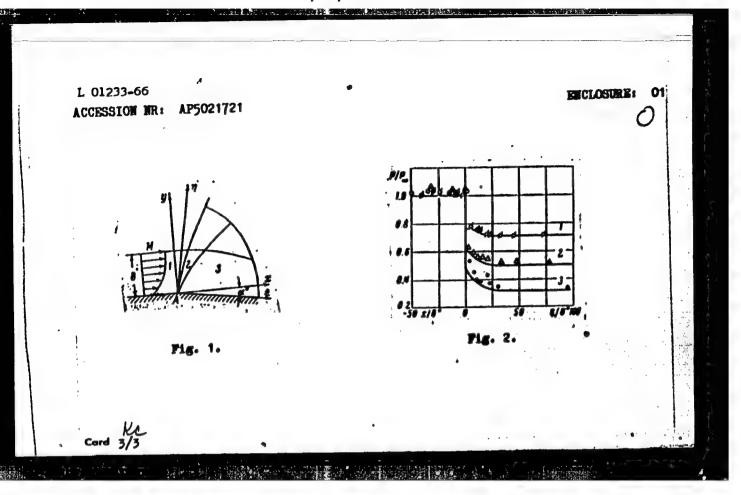
ABSTRACT: Experimental and analytical studies were conducted to determine the flow of a supersonic air stream over an expansion corner (see Fig. 1 on the Enclosure) with expansion angles  $\alpha = 5$ , 10, and 15°. The model used was a thin wedge 90 mm wide at Mach numbers of 2.42 and 2.63 and Re = 8.3 x 10°. The boundary layer over the wedge surface was assumed to be turbulent. Calculated results and the experimental data of the pressure ratio along the wedge surface and over the corner are shown in Fig. 2 on the Enclosure. It can be seen that for all these values of x  $(1 = 5^{\circ}, 2 = 10^{\circ}, 3 = 15^{\circ})$  the pressure ratio first shows a rise at the corner; followed by a gradual decrease to their asymptotic values. Furthermore, the agreement between theory and experiment is satisfactory. Reasonably good agreement was also obtained for a plot of 1/6° versus expansion angle (1° — displacement thickness

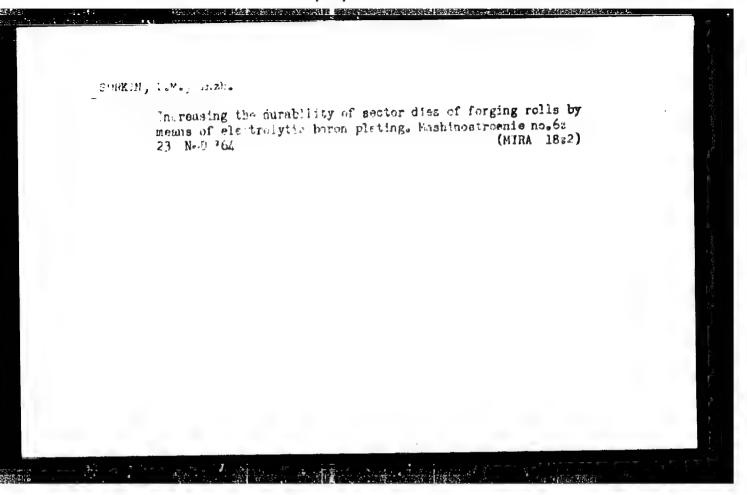
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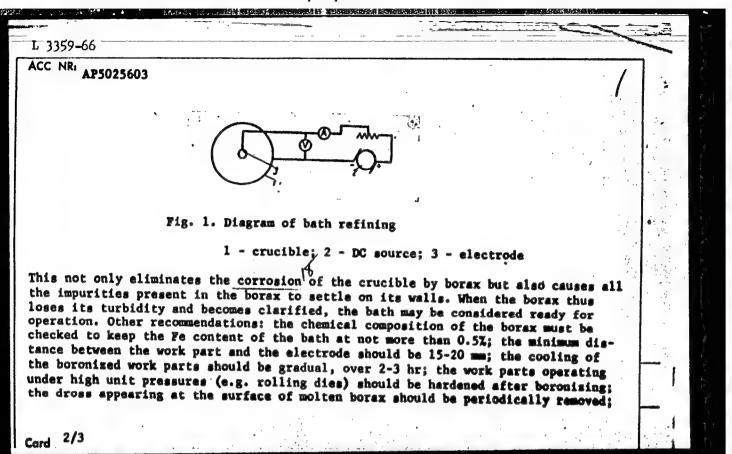
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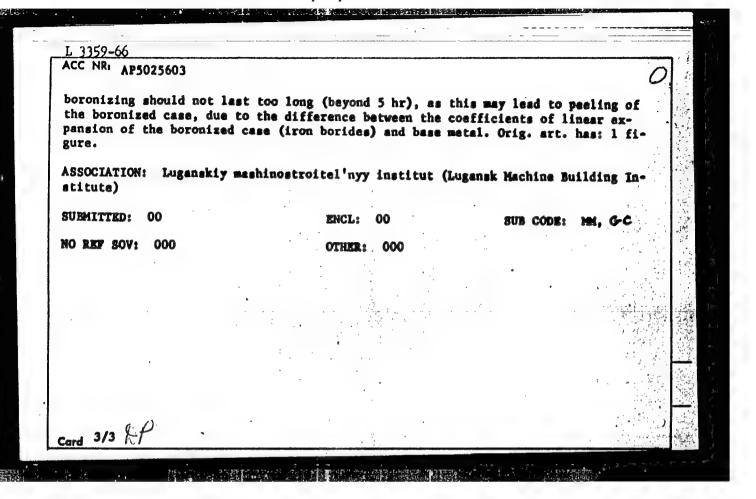




EWT(d)/EWP(e)/ENT(m)/FPF(c)/ENP(i)/EWP(v)/EPF(n)-2/T/EWP(t)/EWP(k)/EWP(h) L 3359-66 ACC NR: AP5025603 EWP(b)/EWP(1) IJP(c) UR/0129/65/000/010/0055/0055 JD/JG/WB 621.785.53:621.191.3 **AUTHOR:** Sorkin, L. M. Eliminating the defects of electrolytic boronizing TITLE: SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 10, 1965, 55, and top half of insert facing p. 41 TOPIC TAGS: boronizing, electrolytic deposition, electrode, fused borax ABSTRACT: An industrial installation for the electrolytic boronizing of rolling dies has been developed by the Lugansk Metal File Plant in collaboration with the Lugansk Machine Building Institute, The service life of the dies thus treated has increased 5-8 times. However, this method of toughening the surface of work parts has as yet limited application, because it still has not been refined. In this connection, the author provides certain practical recommendations for improving the efficiency of electrolytic boronizing. Among other things, to avoid the deposition of lumps of borax and spongy iron on the work part, the boronizing should be performed in fused borax from which various impurities have been removed by first boronising the crucible for 10-15 hr through a special procedure: Card 1/3

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ACC NR. AP6009626 IJP(c) JG/JD	SOURCE CODE: UR/0182/66/000/003/0008/0010
AUTHOR: Sorkin, L. M.	55
ORG: none	41
TITLE: Durability of boronized dies	B
SOURCE: Kuznechno-shtampovochnoye proiz	vodstvo, no. 3, 1966, 8-10
DIE / BORCA) STEEL, DO TOPIC TAGS: hot die forging, hot rollin hardening, metallographic examination / steel, U12 steel	g, alloy steel, boride, microhardness, surface U8 steel, 30KhGSA steel, 5KhNV steel, 8Kh3
ronized die rolls made from U8, 30KhGSA, were conducted under production condition finish-rolling (120 rpm) of U12 steel he at 900-950°C for 3.5 hrs. Subsequently, -920°C and tempered at 370-520°C for 120 the die durability. The boronized alloy while for boronized U8 steel the increas made from U8 steel was 22,500 worked pie	die material on the abrasion resistance of bo- 5KhNy and 8Kh3 steels was studied. Tests ans on SO-234 rolls of 250 mm diameter for the ated to 950-1000°C. Boronizing was carried out the dies were quenched in air or oil from 800- 180 min. In all cases, the boronizing raised steels increased their die life 3.3 times the was 5.5 times; the average durability of dies tees and 14,870 pieces for the alloy steels. The boronized
	UDC: 621.733.4

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Card 1/2

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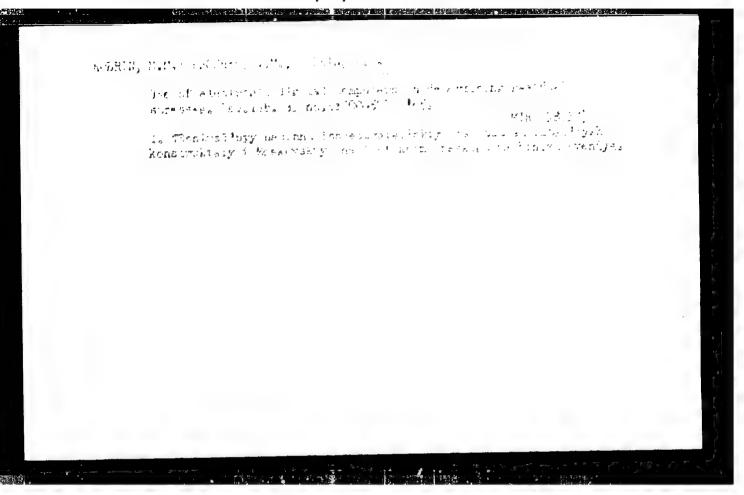
coating of U8 steel was more uniform and continuous than for 5KhNV steel. Alloy steel coatings were composed of FeB, Fe<sub>2</sub>B, B<sub>3</sub>C and large amounts of α-phase embedded between boride needles. Since the microhardnesses of FeB and Fe<sub>2</sub>B were 1300-2000 kg/mm² and only 420-1170 kg/mm² for the α-phase, the durability and heat resistance of U8 with a continuous boride coating were higher than for 5KhNV steel with only 30% boride. While steel carbon content did not affect the thickness of the boronized layer, alloying with Cr; Wand Mn significantly decreased the diffusion rate of boron. Thus the maximum boronized depth of alloy steels did not exceed 0.03-0.08 mm; for Kh25N2OS2 steel, the boronized layer did not form at all. Microhardnesses of worked and unworked die portions were given as functions of distance from the surface. Surface hardnesses of 1550-1650 kg/mm² were reported and the transition zone was usually 0.12 mm for more. Hot working did not affect the surface hardness whereas the interior of the metal decreased 10-15% in hardness. It was recommended that boronized surfaces be applied only to U7, U8 and U8A steels for use in hot-working dies. Orig. art. has: 4 figures, 1 table.

SUB CODE: 11,13/

SUBM DATE: none/

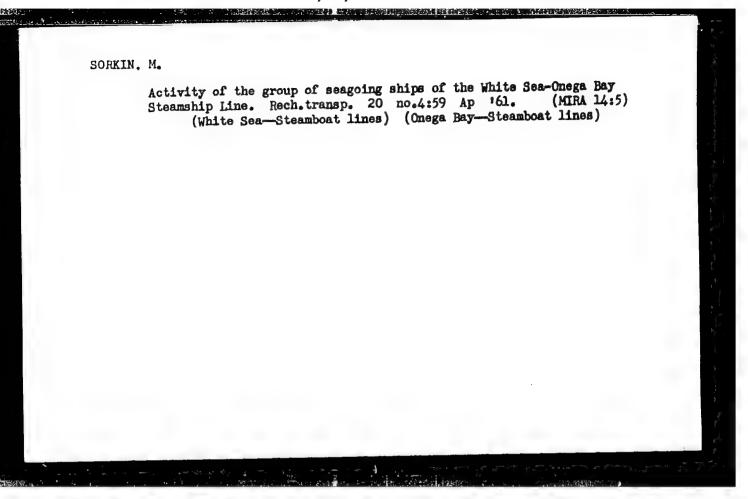
ORIG REF: 004

Card 2/2 he



1 27600-66 SOURCE CODE: ACC NR: AP6018411 UR/0032/66/032/003/0377/0378 AUTHOR: Kobrin, H. H.; Proshko, V. H.; Sorkin, L. S. 41 ORG: Central Scientific Research Institute of Structural Designs (Tsentral'nyy B nauchno-issledovatel'skly institut stroitel'nykh konstruktsiy) TITIE: Use of analog computers to determine residual stresses SOURCE: Zavodskaya laboratoriya, v. 32, no. 3, 1966, 377-378 TOPIC TAGS: stress analysis, digital computer, residual computer/IN-8 analog computer ABSTRACT: The authors start out by stating that in an earlier article (Zavodskaya Laboratoriya, Vol 31, No 4, Apr 65, p 500) they reported the results of having used a digital computer to determine residual stresses. In this work they briefly described their results in an effort to determine the feasibility of using an analog computer to achieve the same data. Residual stresses were determined for a steel cylinder (156 mm in diameter. 134 mm long) using an MN-8 analog computer. The cylinder had been surface cold-worked. Strain curves were plotted from experimental data obtained in the process of layer sectioning of the cylinder. This data was also stored in the computer. A structural diagram of the analog computer is given which shows the function of each block. Satisfactory coincidence of the stress strain-curves allowed the conclusion to be made that analog computers can be successfully used to determine residual stresses in materials. Orig. art. has: 2 figures. [JPR3] SUB CODE: 09. 20 / SUBM DATE: none / ORIG REF: 003 Card 1/1 UDC: 681.142

**	New mooring buoy. Mor.flot 19 no.11:44 N 159. (MIRA 13:3)	
	1. Starshiy pomoshchnik kapitana teplokhoda "Vil'nyus." (Anchorage)	



SORKIN, M.M.; GAVRILOVA, G.Ye.; MEZHUYEVA, Ye.A.; KOGAN, M.G.

Causes of dark-colored ammonium sulfate in by-product coke plants.

Eoka i khim. no.1:55-56 '56.

1. Bagleyskiy koksokhimicheskiy zavod.

(Ammonium sulfate)

68-1-12/21

Olovyannikov, Ye.Ye., Engineer, Sorkin, M.M. and Mezhuyeva, Ye.A. AUTHOR:

A Simplified Design of the Gas-distributing Cone for TTTLE:

Saturators. (Uproshchennaya konstruktsiya zonta saturatora)

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PERIODICAL: Koks i Khimiya, 1957, no.1, pp. 37 - 38 (USSR)

It is stated that the faolite cone distributor used at present in saturators for the production of ammonium sulphate, breaks easily due to its complicated design. The authors described a simplified design of the gas distributor which they tested on one of the operating saturators in the Bagley-skiy Coke Oven Works (Bagleyskiy Koksokhimicheskiy Zavod). The distributor consisted of a cylinder (forming prolongation of the gas main to the depth of normal cone) to which 30 directing plates were welded (figure, p.38). The addition of acid was done through a tube passing into the distributor, i.e. at gas inlet and not on gas outlet as in usual practice. Operating results of the saturator during the testing period are given in Table 1 and size distribution of the sulphate produced in Table 2. After the test (20 ays) the distributor was dismantled and found to be free from salt sediments. It is concluded that the simplified design of distributor is satisfactory and is recommended as a replacement for cone-shaped

Card 1/2

Section ...

TEVSTAF'THEV, A.Ye., kand. tekhn. nauk; KOTENKO, L.A.; SORKIN, M.M.

Operation of benzene and carbon disulfide columns in the distillation section. Koks i khim, no.1:47-49 '58. (MIRA 11:2)

1. Moskovskiy institut khimicheskogo mashinostroyeniya (for Kotenko).

2. Bry;leyskiy koksokhimicheskiy zavod (for Sorkin).

(Coke-oven gas) (Benzene) (Carbon disulfide)

KOPTEY, G.P.; SORKIN, M.M.

Methods for a continuous denitration of sulfuric acid. Koks i khim. no.11:40-42 60. (MIRA 13:11)

1. Bagleyskiy koksokhimicheskiy zavod.
(Coke-oven gas) (Sulfuric acid) (Denitration)

SORKIN, M.M.; PEDAN, A.A.; KOGAN, M.G.

Recovery of benzene hydrocarbons from tar acid and the removal of the residue with the water of hydrosol removers. Koks i khim. no. 3:49-50 '61. (MIRA 14:4)

1. Bagleyskiy koksokhimicheskiy zavod.
(Dneprodzerzhinsk—Coke industry—By-products)
(Coal tar products)

CHEN, N.G , KOPTEV, G.P.; HEREZNITSKIY, S.G.; SORKIN, M.M.; BOYARSKAYA, R.R.

Preventing corrosion and scale formation in primary gas coolers.

Koks i khim. no.9:49-53 '62. (MIRA 16:10)

1. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz (for Chen).
2. Bagleyskiy koksokhimicheskiy zavod (for Koptev, Bereznitskiy, Sorkin, Boyarskaya).

(Cooling towers)
(Corrosion and anticorrosives)

S/068/63/000/001/003/004 E071/E136

AUTHORS:

Chen, N.G., Sorkin, M.M., Pedan, A.A., and

Kogan, M.G.

TITLE:

An investigation of various methods of combating the

scale formation and corrosion of metal

PERIODICAL: Koks i khimiya, no.1, 1963, 46-57

A comparative investigation of the effect of magnetic, phosphate and "coking works" methods of treatment of water used for cooling in heat exchangers was carried out in a laboratory. The "coking works" method of treatment of cooling water consists of adding to it the works phenolic effluent. This method was the most effective in preventing scale formation. treatment decreases the corrosive action of the water only Moreover, an intense corrosion of metal was noticed in the sector of direct action of the magnetic field. Sodium phosphate in a concentration of 2 mg/litre (calc. as P205) does not inhibit corrosion, but in a mixture with calcium bicarbonate (10 mg - equiv/litre) has a protective influence. Phenolic water from the coking works has a particularly strong Card 1/2

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An investigation of various ...

S/068/63/000/001/003/004 E071/E136

passivating effect on metal if it contains some creosote oil. The presence of a large amount of tar in the water leads to the activation of metal.

There are 2 figures and 2 tables.

ASSOCIATION:

Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz (Dneprodzerzhinsk Metallurgical Works - vtuz) (Chen, N.G.); Bagleyskiy koksokhimicheskiy zavod (Bagley Coking Works) (Sorkin, M.M., Pedan, A.A. and Kogan, M.G.).

Card 2/2

KOPTEV, G.P.; SORKIN, M.M.

Improvements in the design of saturators. Koks i khim. no.10:
37-40 '63.

1. Bagleyskiy koksokhimicheskiy zavod.

KOLYANDR, L.Ya.; PUSTOVIT, Yu.A.; SORKIN, M.M.; NEKRASOV, A.Ya.; MIKHNO, S.I.

Discussing the article "Removal by adsorption of carbon disulfide in the preparation of high-purity benzene" by V.E.Privalov, A.P.Kolesov, V.Z.Sokolov ("Koks i khimiia," no.2, '62) and of the article "Preparation of sulfur-free benzene from pure benzene by means of chemical purification methods ("Koks i khimiia," no.3, '62) by V.E.Privalov, T.A.IAroslavskaya, N.Kh.Cherkasov, and I.A.Levantovich. Koks i khim. no.2:62-63 '64. (MIRA 17:4)

Ukrainskiy uglekhimicheskiy institut (for Kolyandr, Pustovit).
 Bagleyskiy koksokhimicheskiy zavod (for Sorkin, Nekrasov, Mikhno).

ORLOV, M.L.; TUMARKIN, L.A.; YEPIMAKHOV, N.M.; SORKIN, M.M.; KOPTEV, G.P.

Improving the process of the primary separation of crude benzol.

Koks i khim. no.3:36-41 '64. (MIRA 17:4)

1. Ukrainskiy uglekhimicheskiy institut (for Orlov, Tumarkin). 2. Bagleyskiy koksokhimicheskiy zavod (for Yepimakhov, Sorkin, Koptev).

SORKIN, M. T.

Stucco

Mechanized finishing of building facades with decorative stucco. Biul. stroi. tekh. 9 no. 14, 1952.

Monthly List of Russian Accessions, Library of Congress. November, 1952. Unclassified.

SORKIN, M.Ye., inzh.

Nomogram for determining the pH of the equilibrium saturation of water by calcium carbonate. Vod. 1 san. tekh. no.10:29-30 0 165. (MIRA 18:11)

SORKIN, M.Z.

Case of spontaneous pneumothorax in a solitary lung. Probl.tub. 37 no.6:99-101 '59. (MIRA 13:2)

1. Iz khirurgicheskogo otdeleniya (zaveduyushchiy - kand.med.nauk R.E. Kogan) Moskovskoy gorodskoy tsentral'noy klinicheskoy tuberku-leznoy bol'nitsy (glavnyy vrach - prof. V.L. Rynis) i khirurgicheskoy kliniki Instituta tuberkuleza AMN SSSR (zaveduyushchiy - prof. L.K. Bogush).

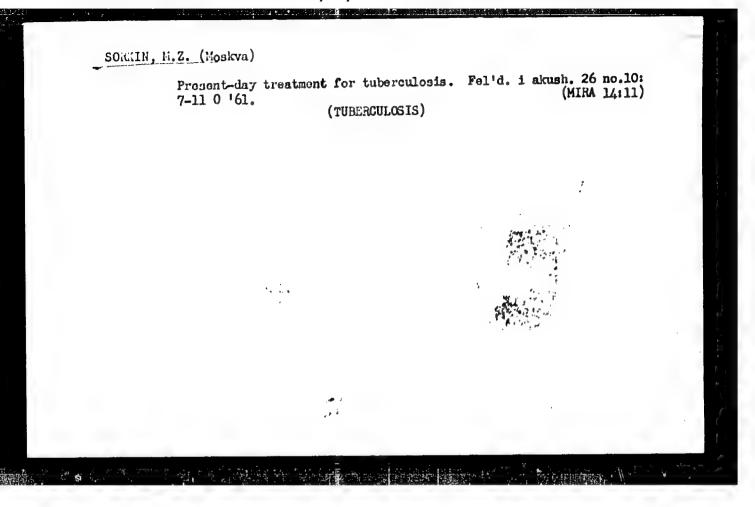
(LUNGS abnorm.)
(PHEUMOTHORAX compl.)

### SORKIN, M. Z.

Surgical treatment of pulmonary hemorrhages in pulmonary tuberculosis. Probl. tub. no.7:50-55 '61. (MIRA 14:12)

1. Iz otdeleniya torakal'noy khirurgii (zav. - kandidat meditsinskikk nauk R. E. Kogan, konsul'tant - chlen-korrespondent AMN SSSR prof.
L. K. Bogush) Moskovskoy gorodskoy TSentral'noy klinicheskoy tuberkuleznoy bol'nitsy (glavnyy vrach - zasluzhennyy deyatel' nauki prof. V. L. Eynis)

(TUBERCULOSIS) (LUNGS-SURGERY)



SORKIN, N. Z. (Moskva, G-48, Kooperativnaya ul. d. 2, kor. 12, kv. 35)

Case of a foreign body in the chest cavity. Grud. khir. no.5: 109-110 '61. (MIRA 15:2)

1. Iz legochno-khirurgicheskogo otdeleniya (zav. - kandidat meditsinskikh nauk R. E. Kogan) Moskovskoy gorodskoy TSentral'noy klinicheskoy tuberkuleznoy bol'nitsy (glavnyy vrach - prof. V. L. Eynis).

(LUNGS-FOREIGN BODIES)

MATLIH, Bemen L'vovich; Thollskiy, L.V., red.; Makke, M.2., red.

[Radio circuits; manual for radio clubs] Radioskhemy; posoble dlia radiokruzhkov. Moskva, DOSA F, 1965. 62 p.

(MIRA 18:3)

34036 SRKIN, H.B. I ERRELITET, A.M. In Sluzkbe
Prom-shlennosti (Tsentr. Mauch-Issled
In-T Khlopkovoy rom-St') Tekstil
Prom-st; 1949, NO. 10, S. 8-9

SO: Letopis' Zhurnal'nykh Statey, Vol. 42, Koskva, 1949

ວັດຖຸກ ໂຄງ ຄູ່ ຄູ່ ນຸ

Cotton Machinery

Manufacture of power-press equipment Khlcpkovodstvo No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

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RODICHEV, S.D.; MERKIN, I.B.; MILOKHOV, N.I.; POPELLO, A.P.; SOLOV'YEV, N.D.; SHEMSHURIN, N.A.; SORKIN, N.B., retsenzent; SMIRHOV, I.I., retsenzent; ANDREYEV, Tu.I., retsenzent; BRAVYY, Z.A., retsenzent; SOKOLOVA, V.Ye., red.; MEDVEDEV, L.Ye., tekhn.red.

[Handbook on the primary processing of cotton] Spravochnik po pervichnoi ohrabotka khlopka. Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po legkoi promyshl., 1959. 687 p. (MIRA 13:4) (Cotton gins and ginning)

Worker occupied in the charge mixture preparation for open-hearth furnaces Shikhtovshchik martenovskogo tsekha.

Moskva, Metallurgiia, 1965. 77 p. (MIRA 1911)

SORKIN, R.A.; ANIKIN, A.V.

1. Fiziko-tekhnicheskiy institut AN Turkmenskoy SSR. (Strontium-Spectra)

SORKIN, S., red.; POKHLEEKINA, M., tekhn. red.

[Do you use the land correctly?]Pravil'no li vy ispol'zuete zemliu? Moskva, Mosk. rabochii, 1962. 108 p. (MIRA 16:3)

(Agriculture)

SORKIN, S. L., NAZAROV, F. G.

Soil Moisture

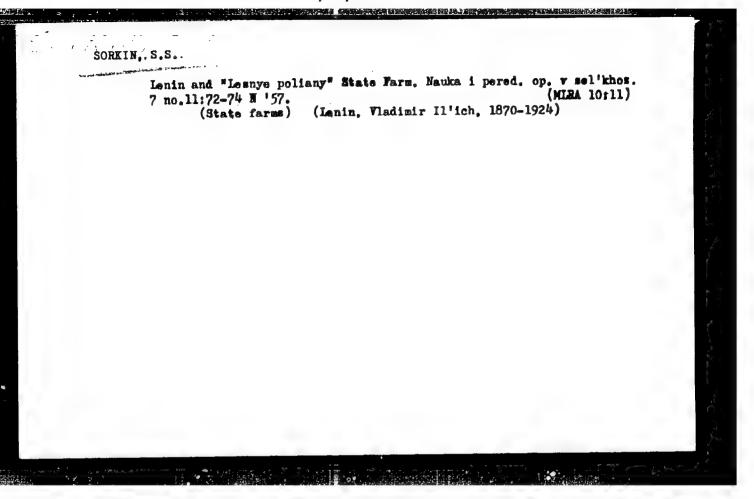
Accumulating moisture in soil by means of a furrowing machine and a claw cultivator. Les khoz. 5 no. 3(42), 1952

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

ALEKSANDROV, Grigoriy Yakovlevich; SORKIN, S., redaktor; LIL'YE, A., tekhnicheskiy redaktor

[Tractor brigade leader's manual] Pamiatka brigadira traktornoi brigady, [Moskve] Moskovskii rabochii, 1956. 510 p. (MIRA 9:10)

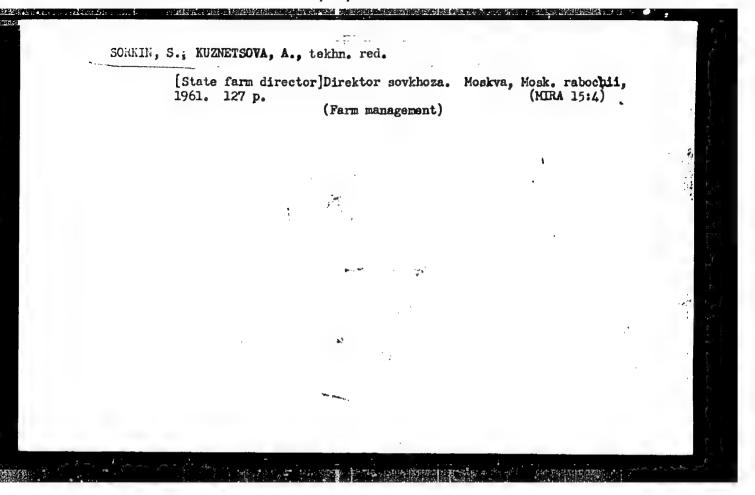
(Tractors)

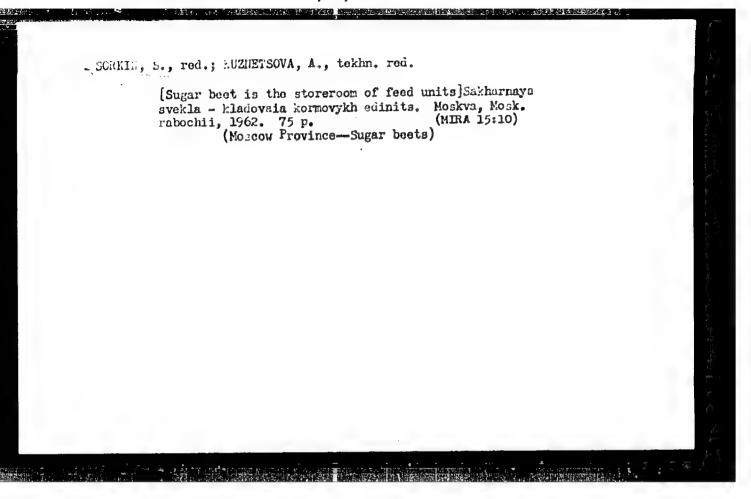


MININ, Mikhail Kuz'mich; SORKIN, S., red.; PAVLOVA, S., tekhn.red.

[New wage system at the "Simgarovo" State Farm] Novoe v oplate truda v sovkhoze "Simgarovo." Moskva, Mosk.rabochii, 1960.
47 p. (MIRA 13:5)

1. Direktor sovkhoza "Shugarovo", Moskovskoy oblasti (for Minin).
(State farms) (Wages)





ACC NR: AR6035102

SOURCE CODE: UR/0137/66/000/008/G021/G022

AUTHOR: Sorkin, V. A.

TITLE: Direct production of refractory metals and their compounds with the aid of a high-intensity electric arc

SOURCE: Ref. zh. Metallurgiya, Abs. 8G211

REF SOURCE: Elektrotermiya, Nauchno-tekhn. sb., vyp. 49, 1966, 49-53

TOPIC TAGS: refractory metal, refractory ore, refractory product, ELECTRIC

ABSTRACT: A process is described for the direct production of pure metals and their compounds directly from ores and concentrates with the aid of a high-intensity electrical arc; the process is the most expedient for the following high-melting ores and concentrates: W, Mo, Ta, Ti, Nb, V, Zr, Be, and Si. The mechanism of the process of direct treatment of ores and concentrates is described, along with a diagram of the plasma unit. The bibliography contains 17 titles. G. Svordtseva.

SUB CODE: 11/

Card 1/1

UDC: 669. 85/. 86, 044

REAL TO THE

USSR/Chemical Technology. Chemical Products and Their Application -- Treatment of

natural gases and petroleum. Motor fuels. Lubricants,

I-13

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5490

Author: Myagkov, V. Ya., Sorkin, Ya. G.

Institution: None

Title: Ways of Improving the Utilization of Water and Heat at Petroleum

Distilleries

Original

Publication: Neft. kh-vo, 1956, No 4, 50-61

Abstract: The inefficient utilization of water and heat at the modern petroleum

distilleries is noted, as well as the use of condensers, heat exchangers and cooling systems of unsatisfactory design. There are listed the first-priority measures to be taken in order to improve the utilization of water and put into effect composite systems of

power- and water utilization.

Card 1/1

SORKIN, Ya.G.; SOKOV, Yu.F.; SAHRIKOV, I.A.; MIKITINA, L.G.

Operation of an assemby for catalytic reforming on a platinum catalyst. Khim. 1 tekh.topl. 1 masel 5 no. 11:8-11 N '60. (Gracking process)

(Gracking process)

SORKID, Yang, NELIKEDBAUM, Yani, MAMINA, F.A.

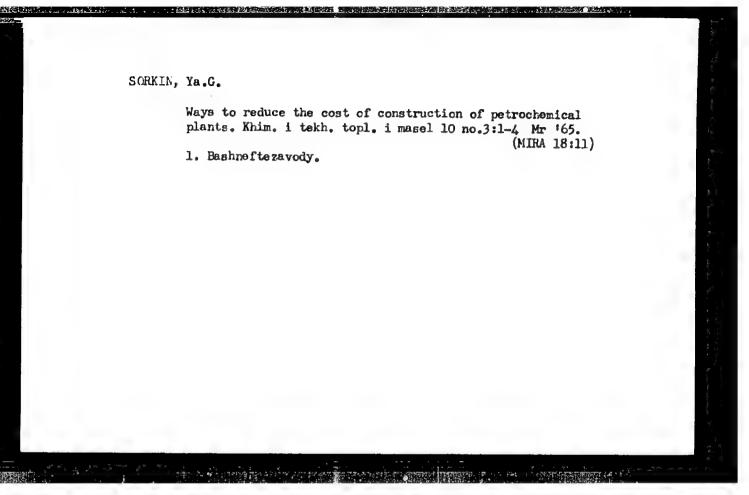
New nonionogenic demulsifiers for eastern oils. Trudy Bash NIINF no.5: 322-332 462. (MIRA 17:10)

1. Charnikovskiy neftepererabatyvayush hiy zavod.

SORKIN, Ya.G.; NEL'KENBAUM, Ya.I.; GABDRAKHMANOV, F.Kh.; KHAKIMOV, F.G; SAYFUTDIROV, M.Z.

Industrial testing of the OKO nonionogenic demulsifying compound on Romashkino oils. Khim.i tekh.topl.i masel 7 no.9:24-27 S 162. (MIRA 15:8)

1. Chernikovskiy neftepererabatyvayushchiy zavod. (Chernikovsk--Petroleum--Refining) (Emulsions)

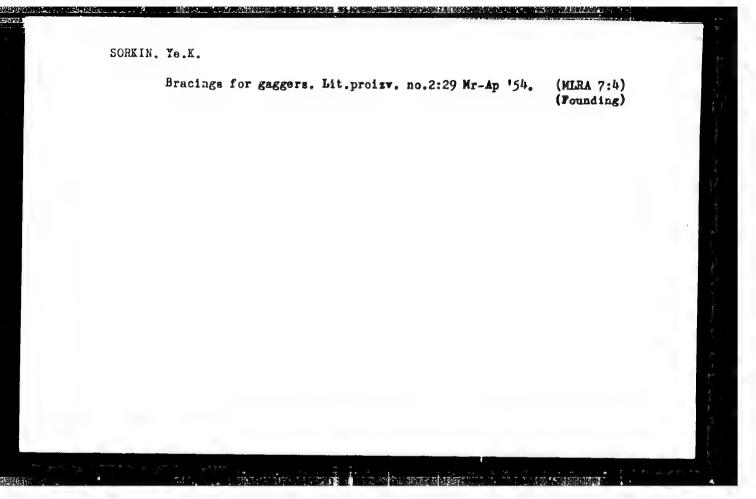


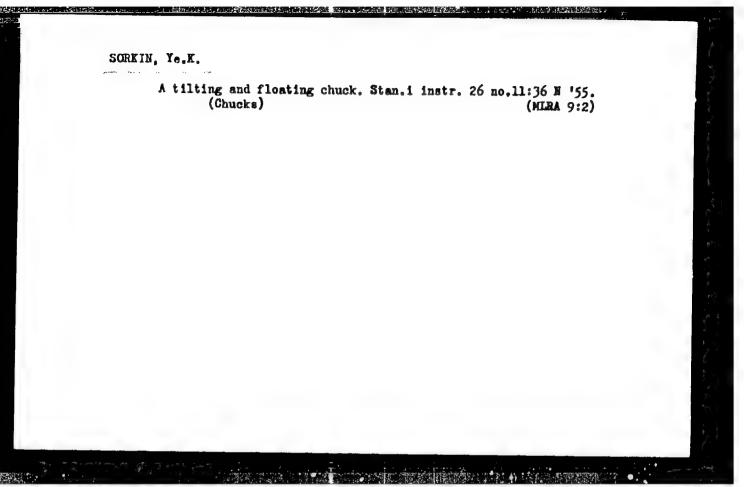
irline arran ir — seinderse romateriskiniska arrangeriski irre Karakiniski resinkiniski karakiniska arrangerisk

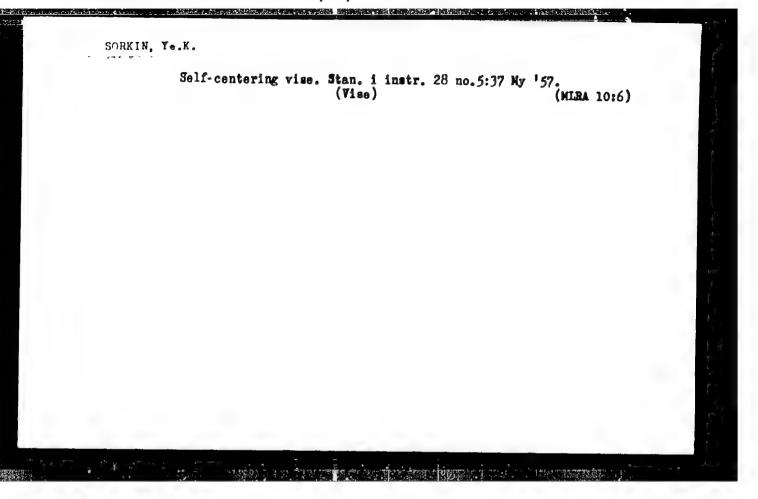
SORKIN, Ya.I.; NEL'KENBAUM, Ya.I.; MAMINA, F.A.

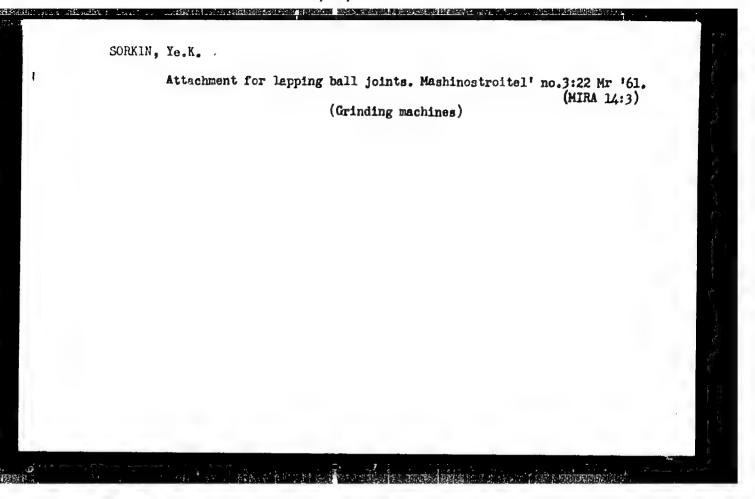
Vat residues of fatty acids as raw materials for the production of non-ion-forming demulsifiers. Khim.i tekh. topl.i masel 6 no.2: 28-32 F '61. (MIRA 14:1)

1. Chernikovskiy neftepererabatyvayushchiy savod. (Acids, Fatty) (Emulsions)









5. wary 15.5.

72-1-11/13

AUTHOR:

Sorkin, Ye. S.

TITLE:

A Double Small-Dimension Electron Relay With Grid Contact (Malogabaritnyye sdvoyennyye elektronnyye rele s setochnym kontak-

tom)

PERIODICAL:

Steklo i Keramika, 1958, Nr 1, pp. 29 - 30 (USSR)

ABSTRACT:

A relay is used in the wiring schemes of the automatic control of pressure in the gas chamber of a continuous glass melting furnace, of the level of glass mass, water, and other liquids. It may be used in all cases in which as a controlled ("command") impulse for regulation the earthing of the grids of an electron tube is used. By means of the relay 3 CP-2 the sensitivity of the controllingand measuring systems is considerably increased. Figure 2 shows electron relays with grid two types of double small-dimension . They had been contact and electron tubes of the type GH 15 $\pi$ developed and produced by the experimental glass works of the In-3 CP-2M-60, and on the stitute for Glass. On the left is the type ∋ CP-2M-30 is shown. The new relays have small right the type dimensions, consume less electric energy than the old ones of the ∋C P-2, and their production costs are lower. Figure 2 shows their basic wiring schemes. As may be seen herefrom, the re-

Card 1/2

AUTHOR:

Sorkin, Ye. S.

807/72-59-10-11/18

TITLE:

New Construction of a Dilatometer (Novaya konstruktsiya

dilatometra)

PERIODICAL:

Steklo i keramika, 1958, Nr 10, pp 40-42 (USSR)

ABSTRACT:

The dilatometer constructed by the author measures the difference in expansion between the sample to be investigated and the quartz glass the thermal expansion coefficient of which is comparatively small. In the figures 1 and 2 its construction is shown. The ceramic furnace parts of the dilatometer were manufactured according to data supplied by Professor N. V. Solomin, Doctor of Technical Sciences. Then a detailed description of the dilatometer is given. A measuring instrument with a 0,001 mm scale and a measuring range of 0 - 1 mm is used as indicator. In contrast to the dilatometers hitherto in use the temperature of the sample itself and not that of the furnace is measured. An equal increase in temperature is obtained by the change of the amperage in the furnace winding. The relative measuring er-

Card 1/2

ror was found to be 0,3 % in the case of lime-containing sodium glass, and 0,6 % in the case of boron silicate glass.

New Construction of a Dilatometer

There are 2 figures.

SOV/72-58-10-11/18

Card 2/2

\$/0000/63/003/001/0123/0126 ACCESSION NR: AT4019301

AUTHOR: Ty\*kachinskiy, I. D.; Sorkin, Ye. S.

TITLE: Investigation of the variation in the physical properties of glass of the lithium oxide-alumina-silica system during its crystallization

SOURCE: Simpozium po stekloobraznomu sostoyaniyu. Leningrad, 1962. Stekloobraznoye sostoyaniye, vy\*p. 1: Katalizirovannaya kristallizatsiya stekla (Vitreous state no. 1: Catalyzing crystallization of glass). Trudy\* simpoziuma, v. 3, no. 1 Moscow, Izd-vo AN SSSR, 1963, 123-126

TOPIC TAGS: glass, glass crystallization, glass physical property, aluminosilicate, lithium glass

ABSTRACT: The authors investigated the changes in the physical properties, such as density, refractive index, coefficients of thermal expansion and light transmittance, as well as the deformation under isothermal static compression, of glasses of the Li<sub>2</sub>0-Al<sub>2</sub>0<sub>3</sub>- SiO<sub>2</sub> system during crystallization as a function of the time of exposure at different temperatures. The experimental curves show that at any temperature of exposure in the investigation range, the density and refractive index asymptotically approached the same ilmiting value. The coefficient of light transmittance approached zero asymptotically. Deformation curves and 1/2 Card

ACCESSION NR: AT4019301

for glass under static compression at different temperatures are given, and the correlation between the character of the deformation and the changes in physical constants is plotted at a temperature of thermal treatment of 710C. On plotting the same curves at other temperatures, in the same time interval, it could be seen that the deformation curves of isothermal static compression reveal changes in the physical properties of the initial glass during its crystallization. Compression tests on samples of initial glass of the Li<sub>2</sub>O-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> system using other mineralizers showed that the deformation curves have an analogous slope.

ASSOCIATION: none

SUBMITTED: 17May63

DATE ACQ: 21Nov63

ENCL: 00

SUB CODE: MT

NO REF SOV: 004

OTHER: 003

Card 2/2

1. 13834-63 EPR/EPF(c)/EPF(n)-2/EWP(q)/EWT(m)/BDS/T-2/ES(s)-2/ES(w)-2/EFTC/ASD/SSD Ps-4/Pr-4/Pu-4/Pt-4/Pab-4 WW/WH
ACCESSION NR: AP3003860 8/0020/63/151/003/0628/0639

AUTHOR: Sorkin, Ye. S.; Vaysfel'd, N. M.

TITLE: Structural changes in certain glasses on "sitallization"

SOURCE: AN SSSR. Doklady\*, v. 151, no. 3, 1963, 628-630

TOPIC TAGS: lithium-alumina-silica glass, crystalline glass material, "sital" pyroceram, crystallization, heat treatment, "sitallization", titanium dioxide, zirconium dioxide, electron micrograph, crystal seed, crystal structure, compression, thermal expansion, density, refraction index, light transmission, titanium dioxide catalyst, zirconium dioxide catalyst, pyroceram, pyroceram crystallization catalyst.

ABSTRACT: Crystallization by heat treatment or "sitallization" (pyroceram-type material formation) has been studied in two Li, 0-Al, 0, -SiQ, glasses by electron microscopy. A correlation was established between the structural modifications observed in this study and the variations in physical properties determined by K. S. Sorkin (Optiko-mekhan. promy shlennost, no. 10, 33 (1962)). In the present study, a Tesla BS-242A electron microscope was used with a direct magnification of

Card 1/32

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L 13834-63 ACCESSION NR: AP3003860

3000-4000 and subsequent photo-enlargement. Class No. 1'contained TiO, and gless No. 24 Zro, crystal seeds (catalysts). The glasses were heat treated at 7100 and 7750, respectively. Electron micrographs of the glasses show a similar pattern of structural changes in both cases. The first sharp change, the emergence of a primary crystalline phase, takes place after 1 hr in No. 1 and 2 1/2 hr in No. 2. The second change, occurring after 2 1/2 hr in No. 1 and 3 1/3 hr. in No. 2 is attributed to the completion of the growth of this primary phase and the onset of its transformation into a secondary crystalline phase. X-ray analysis of glasses No. 1 and 2 showed spherical droplet-like particles with crystalline structure in both the primary and secondary phases. The secondary and final structure is identical in both glasses, although the particle size in glass No. 2 is greater, owing to the higher treatment temperature. However, the structure of the primary crystalline phase in the initial crystallization stage is different in the two glasses because of the substitution of Zro, for Tio, . The two sharp modifications of the structure -- formation of the primary phase and its transformation into the secondary -- appear at the same time as inflections on the curves of time versus compression, thermal expansion, density, index of refraction, and total light transmission. The article was presented by Academician P. A. Rebinder, 2 April 1963; Orig. art. has: 3 figures.

ASSOCIATION: State Scientific Research Institute of Glass

TYKACHINGKIY, I.D.; SORKIN, Ye.S.

Investigating changes in the physical properties of glass in the system  $\text{Li}_20 - \text{Al}_20_3 - \text{SiO}_2$  in the process of the formation of pyroceramics. Stekloobr. sost. no.1:123-126 '63. (MIRA 17:10)

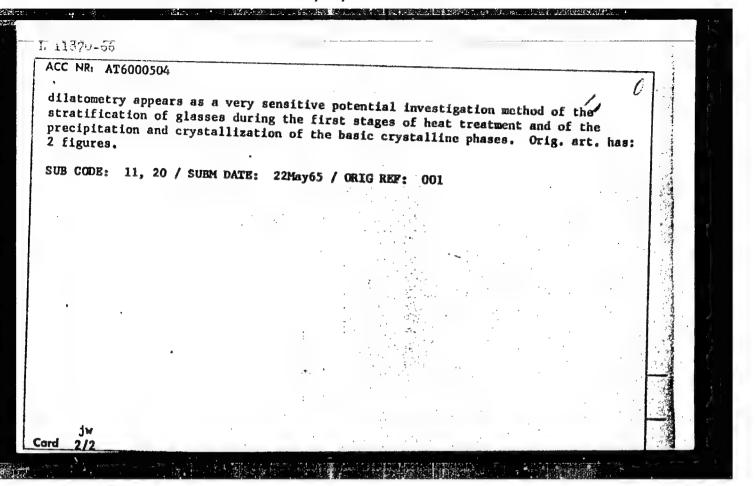
CIA-RDP86-00513R001652420011-9" APPROVED FOR RELEASE: 08/25/2000

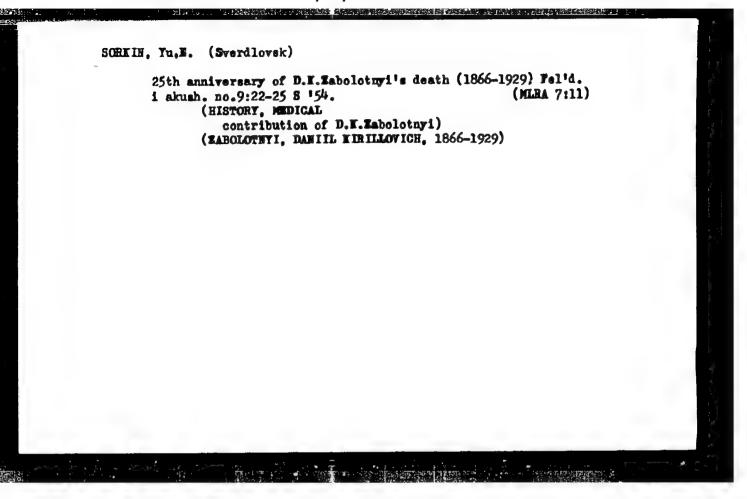
SORKIN, Ye. S.

"On connection of glass structure variation in the process of formation of glass-ceramic material with its thermal expansion."

report submitted for 4th All-Union Conf on Structure of Glass, Leningrad, 16-21 Mar 64.

L 11870-66 EUT(m)/EWP(b)/EWP(e) GS/ WH ACC NR: AT6000504 SOURCE CODE: UR/0000/65/000/000/0356/0360 AUTHOR: Sorkin, Ye. S. 44. BH ORG: None TITLE: Thermal expansion and structure of crystallizing glasses SOURCE: Vsesoyuznoye soveshchaniye po stekloobraznomu sostoyaniyu. 4th, Leningrad, 1964. Stekloobraznoye sostoyaniye (Vitreous state); trudy soveshchaniya, Leningrad, Izd-vo Nauka, 1965, 356-360 TOPIC TAGS: lithium glass, silicate glass, catalyzed crystallization, thermal expension, constellization, climical precipitation
ABSTRACT: From the standpoint of the theory of catalyzer-induced glass crystallization it is interesting to compare the changes in thermal expansion and other physical constants with the changes in the structure of lithia-aluminosilica glass during the glass crystallization process. The author, consequently, carried out a complex study of the glasses with a composition close to spodumene during the isothermal crystallization process. Original samples differed in the type of catalyzer only ( $TiO_2$ ,  $ZiO_2$ , and  $SnO_2$ ). The results cover the changes in compression deformation, mean coefficient of thermal expansion, density, index of refraction, and coefficient of total light transmission as a function of annealing time at 740C, and the dilatometric curves of the glass-crystal samples following heat treatment at 740C. The analysis of the results shows that the peculiarities of each stage of the catalyzed crystallization affect the characteristic of the dilatometric curve. Consequently, Card 1/2



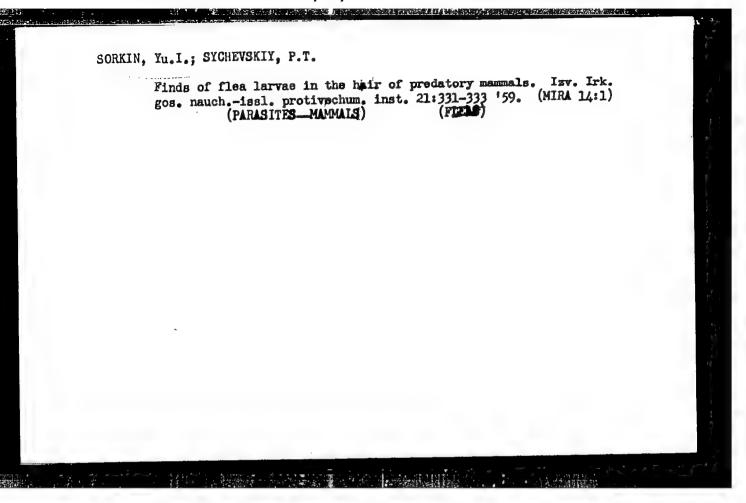


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POPUGATIO, V.M., podpolkovnik med.sluzhby, SCRKIN, Yu.I., LAMANOV, P.P., podpolkovnik med.sluzhby

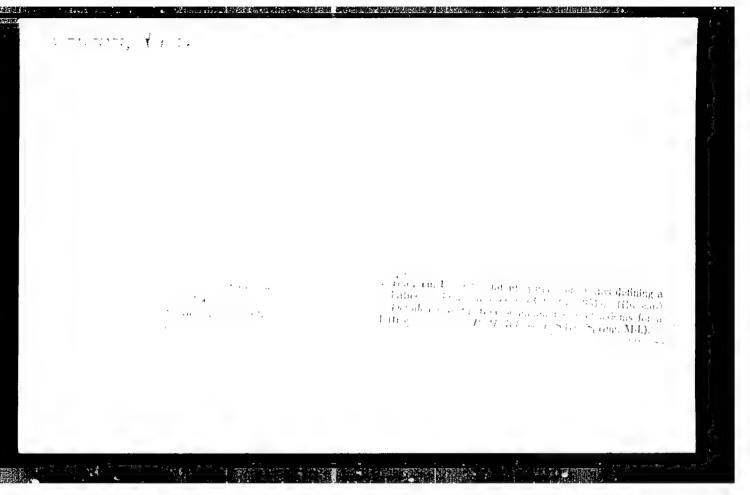
Gonducting a general rat extermination in populated areas. Voen. med.zhur. no.12:80 D'57 (MIRA 11:5)

(RATS-EXTERMINATION)

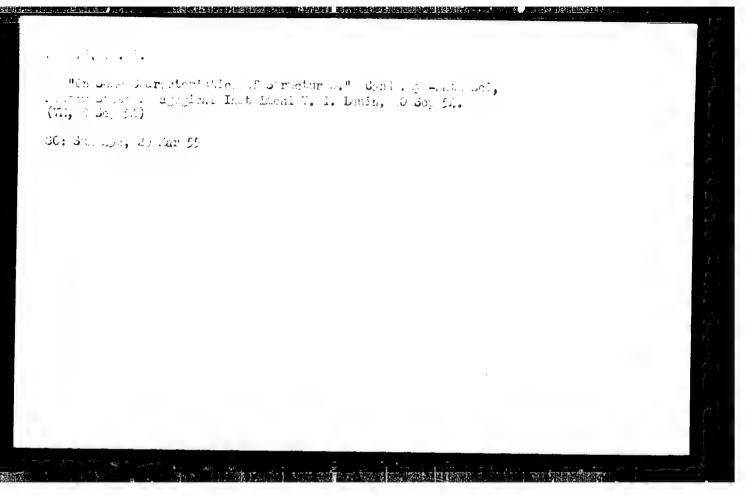


- 1. SORKIN, YU. I.
- 2. USGR (600)
- 4. Lattice Theory
- 7. Independent systems of axiems determining a lattice. Ukr. met. zhur. No. 1 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.



COPYET, YV. 1., MOZOGE	theory of free structures studied by Whitm the current article the author determines unions of structures (by Dilworth's method clarifies certain properties of the free ustructures. Submitted 15 Jan 52.	USER/Anthematics - Lattice Theory "Tree Unions of Structures," Tu. I. Sorkin, No. "Matemat Sbor" Vol XXX (72), No 3, pp 677-694 Recently theories of free products of algebras and projective planes (A. G. Eurosh, A. I. Zhui L. I. Kopeykins) have appeared along with early theories of free products of groups. The obserparallelism of these 3 theories suggested the possibility of constructing an analogous theory also for structures which would generalize the
217181	217761 ed by Whitman. In letermines the th's method) and the free union of	May/Jun 52  1. Sorkin, Moscov  pp 677-694  of algebras  th, A. I. Zhukov,  ang with sarlier  s. The observed  aggested the  clogous theory  meralize the



## SORKIN, Yu.I.

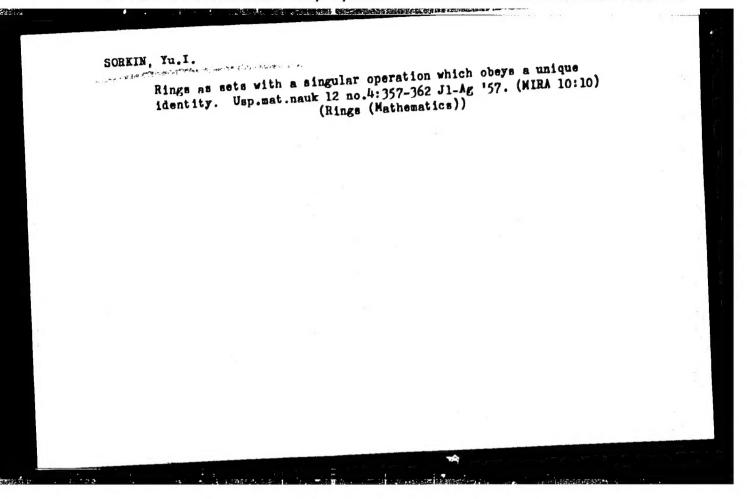
Embedding of groupoids and lattices. Dokl.AN SSSR 95 no.5:931-934 Ap 154. (MLRA 7:4)

1. Moskovskiy gosudarstvennyy pedagogicheskiy institut im, V.I.Lenina. Predstavleno akademikom A.W.Kolmogorovym.

(Lattice theory)

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AUTHOR:

Sorkin, Yu.I.

On distributive quasigroups

PERIODICAL: Referativnyy zhurnal. Matematika, no.8, 1960, 32, abstract no.8639. Uch. zap. Mosk. gos. zaochn. ped. in-ta.

Ser. fiz.-matem., 1959, no.3, 82-92

TEXT: The quasigroup  $Q(\cdot)$  is called distributive if a.bc = ab.ac, bc.a = ba.ca holds for arbitrary a,b,c &Q. A polynomial f(x) is a word (with a certain distribution of brackets) with respect to the elements of Q and a certain symbol x. The number of symbols x is called the degree of f(x). Elements of Q appearing in f(x) are called parameters. In the present paper the author investigates equations of the kind

where  $f_1$ ,  $f_2$  are polynomials of first degree with one parameter. It is proved that all solutions of (1) form a Lagrange subquasigroup H, i.e. a subgroup so that the classes with respect to H either are identical or have no common elements. In connection with (1) the author investigates

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